A beginner's guide to Office Scripts

ICAEW Excel Community 26 November 2024





#1 What are Office Scripts?

#2 Creating Office Scripts

#3 Office Scripts with Power Automate

#4 Q&A



The elephant in the room.....

Office Scripts will not replace VBA

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What are Office Scripts?

Office Scripts are a programming language to automate common tasks in Excel.

Designed to empower people who may not consider themselves programmers to create small programs in Excel.



Sounds just like VBA!



What are Office Scripts?

Office Scripts are a combination of:

1. Excel Document Object Model (Office Scripts API)

• Map of where to find objects in Excel

2. TypeScript

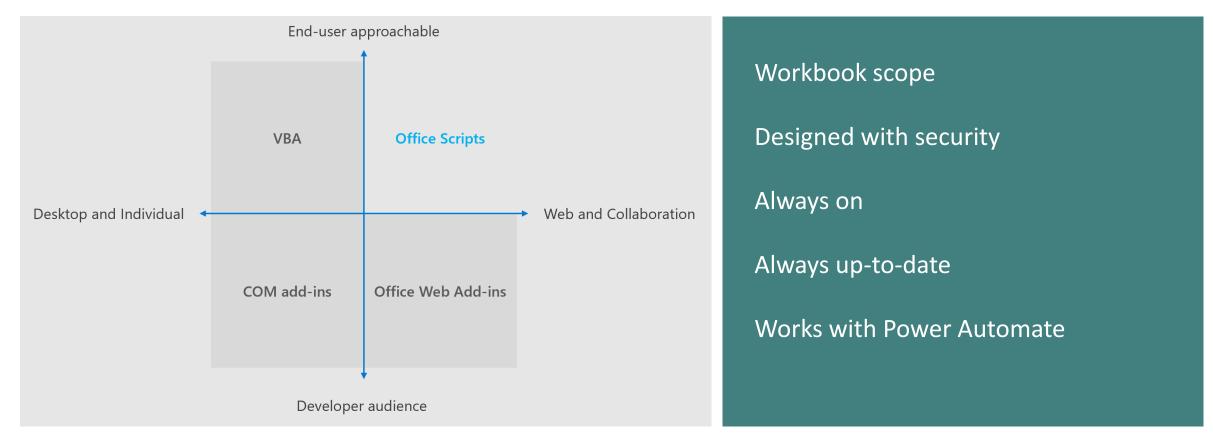
- Developed by Microsoft as a derivative of JavaScript
- Provides the language syntax for functions, arrays, logic, loops etc.
- Primarily web-based language; some elements removed where not relevant or for security



Sounds just like VBA!



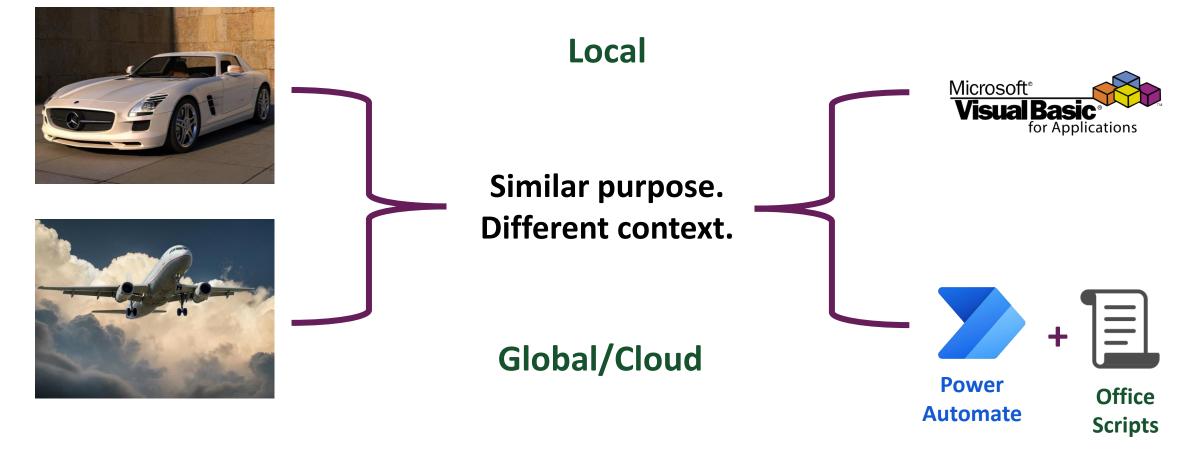
Difference between Office Scripts & VBA



Source: https://docs.microsoft.com/en-us/office/dev/scripts/resources/vba-differences

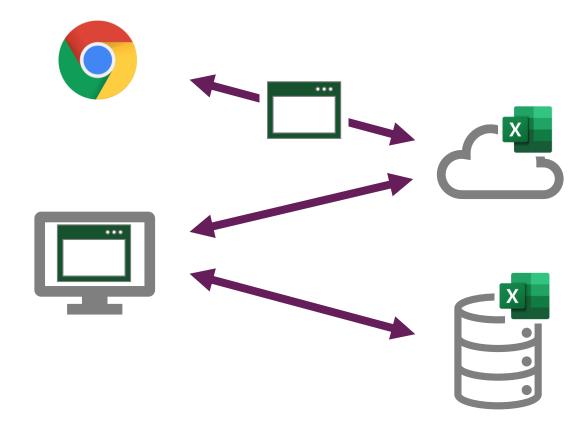


Difference between Office Scripts & VBA





What is "Cloud" in the context of Excel?



- 1 Excel online is a separate browserbased application which uses the Cloud.
- **Excel 365 desktop is a PC installed application which uses the Cloud.**



- OneDrive / SharePoint
- Office Scripts
- Python
- Copilot
- Analyze data



Do you have access to Office Scripts?

Compatible licences (as at Nov 2024):

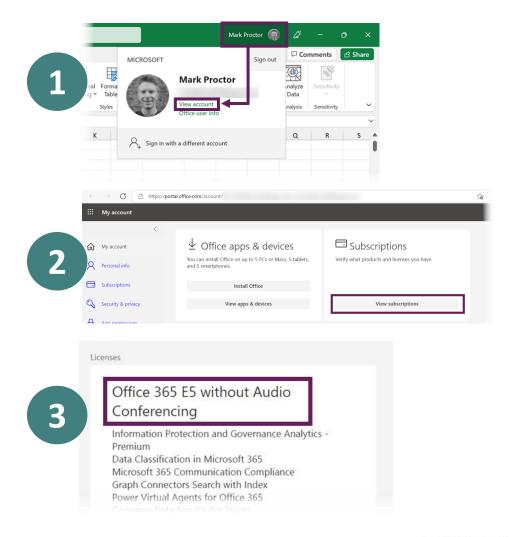
Business & Education:

365 Business | Business Premium
365 ProPlus | ProPlus for Devices
365 A3 | A5
365 E1 | E3 | E5
365 F3

Personal & Family:

Various 365 versions:

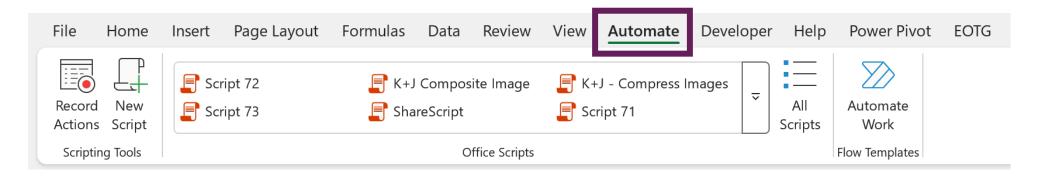
Currently in preview. Insiders only.





Are Office Scripts enabled?

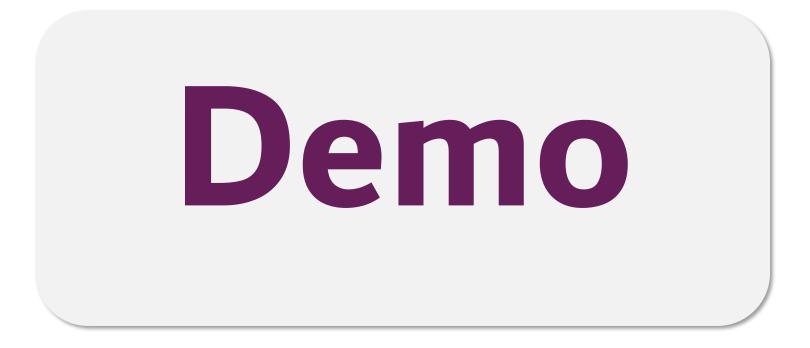
Is the Automate ribbon visible?





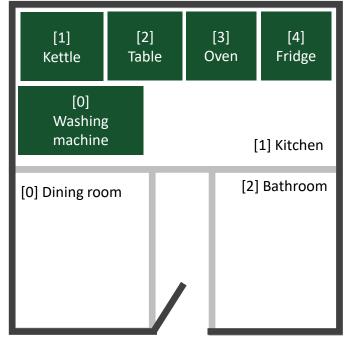
Enabled by default. Turned off by your IT department. Start begging....







What is the Document Object Model (DOM)?



House

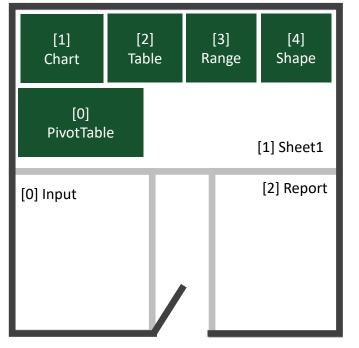
House

- Go To Room called "Kitchen"
- Go To Item called "Oven"
- Set Temperature to 180°C

House.Room("Kitchen").Item("Oven").TemperatureC(180)



What is the Document Object Model (DOM)?



Workbook



Workbook

- Get Worksheet called "Sheet1"
- Get Range called "A1"
- Set Value to "Hello World!"

workbook.getWorksheet("Sheet1").getRange("A1").setValue("Hello World!")





#1 New script



#2 Longer script with variables

#6 Buttons

#3 Script recorder

#7 Scripts with parameters

#4 Record individual steps

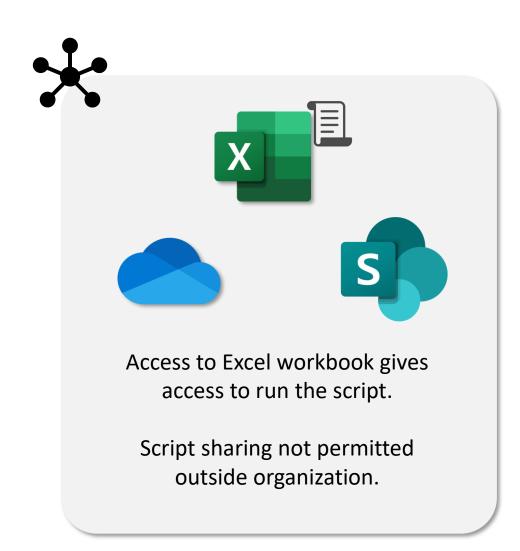


Saving & sharing



Access granted by existing OneDrive/SharePoint access.

Grant read or write access.





What is Power Automate?

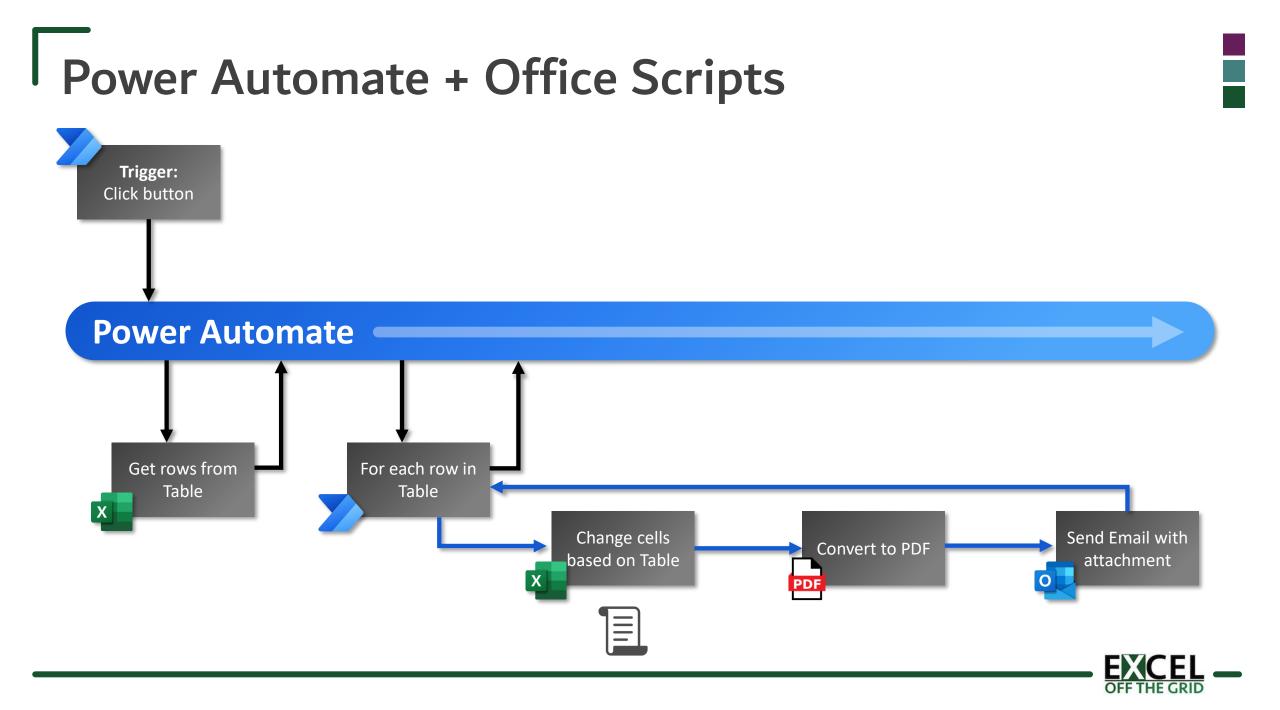


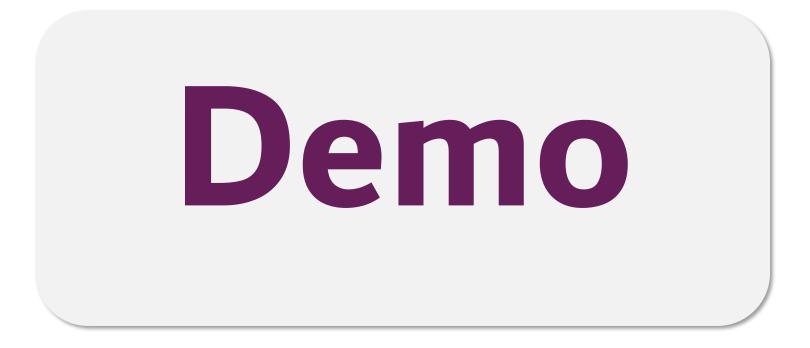
Power Automate is a service that helps us create automated workflows between apps and services to synchronize files, get notifications, collect data, and more.

Online: Cloud based using connectors/APIs to other applications. Can use Office Scripts

Desktop: Locally saved files and desktop applications. **Cannot use Office Scripts**





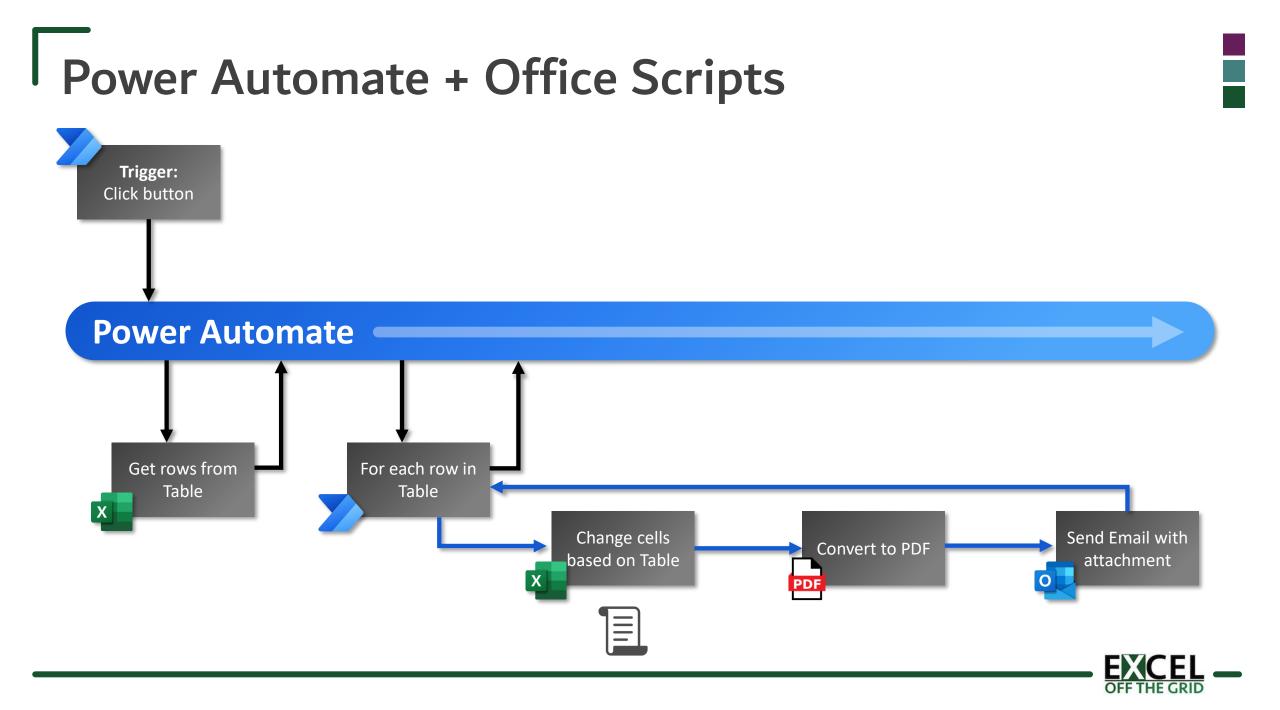




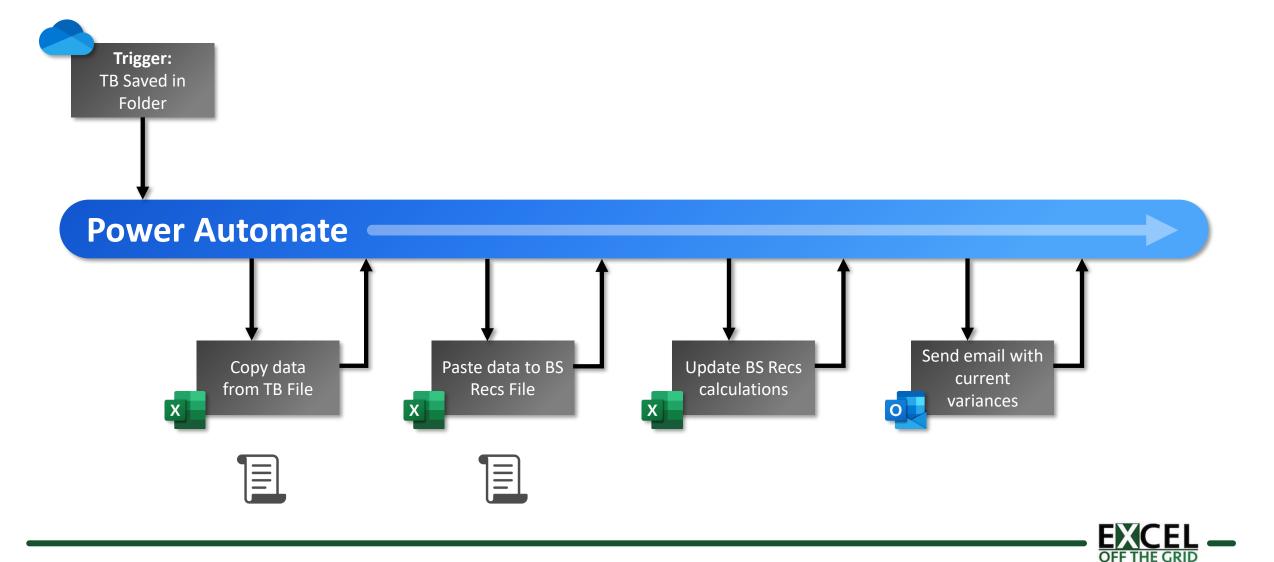


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+ Add an input			* Folder	The unique identifier of the folder.		\leftarrow Instant Flows
			Show advanced option	s 🗸		LEM - Example 1 - Backup
						This flow uses one or more connections Review connections and actions
When a new e	mail arrives (V3)	····	When a HTT	^T P request is received	····	Run flow
lder	Inbox	6	HTTP POST URL	URL will be generated after save		
	Recipient email addresses separated by semicolons (If an	y match, t	Request Body JSON S	chema		
	CC recipient email addresses separated by semicolons (If	any matc				
or CC	To or CC recipient email addresses separated by semicolo	ons (If any				
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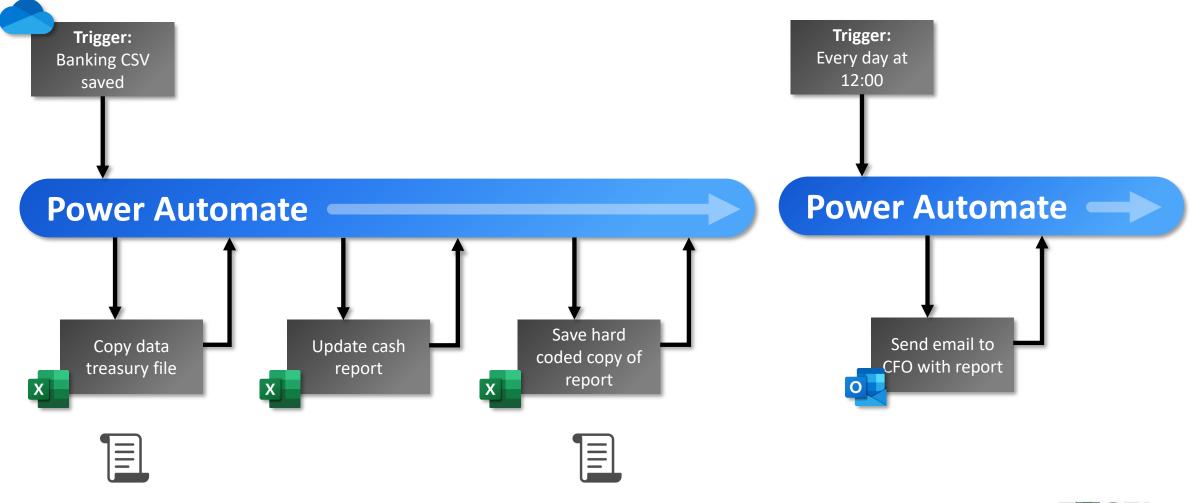




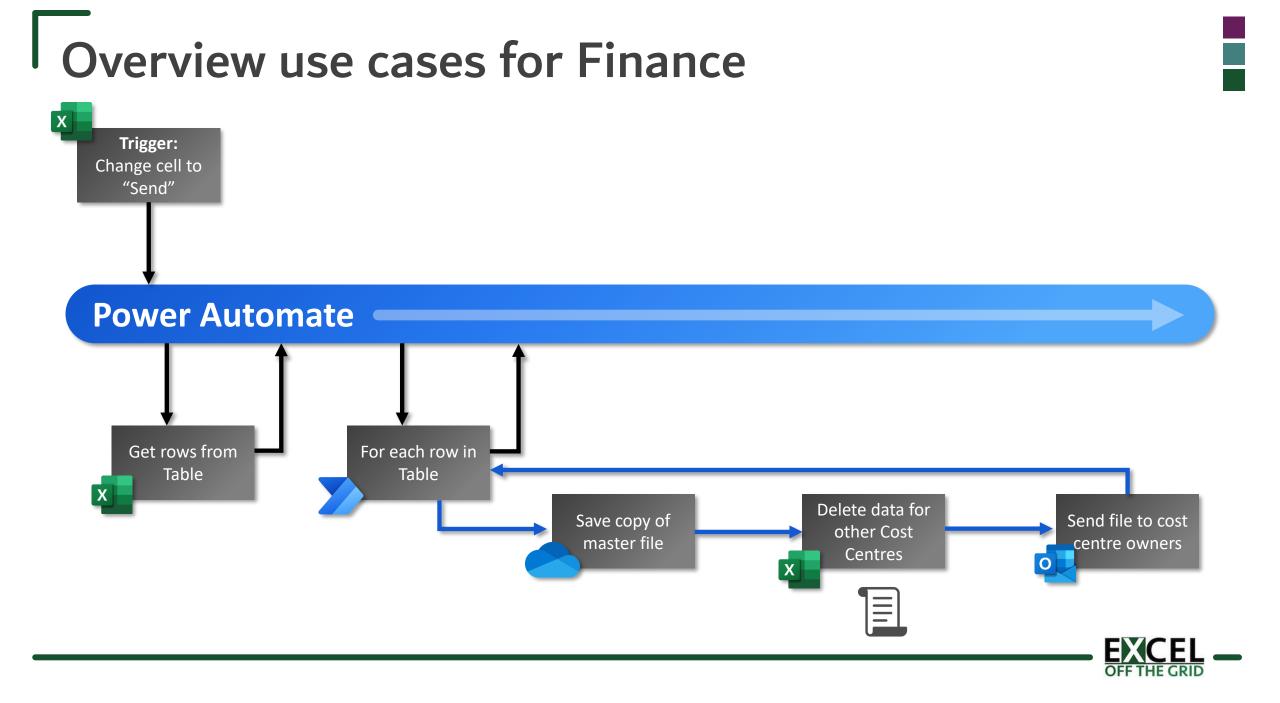
Overview use cases for Finance



Overview use cases for Finance









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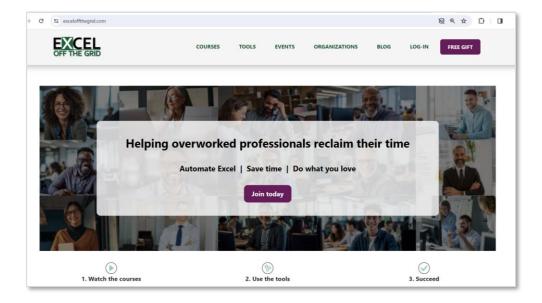
Where to find me?

Mark Proctor





Reclaim your time by automating Excel.













Mark Proctor



MVP





